

**CHARACTERISTIC REPORT:** s.283.55(1), Wis. Stats. Form 3400-49 Rev. 1-98 Permit No: **0036820**

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(Municipal Sludge, Industrial Sludge, Liquid Industrial Waste and By-Product Solids)

Facility: MILWAUKEE METRO SEW DIST COMBINED

260 W. Seeboth St

Milwaukee , WI 53204-1446

Reporting Period: 05/01/2016 - 05/31/2016

Form Due Date: 01/31/2017

FIN: 6555 Region: Southeast Region DOC: 363393

FID: 241487400 Date Received:

Forms require electronic submittal.

Did you land apply this period? Yes

If yes and Municipal Sludge:

A) Were Class A Pathogen Requirements Satisfied? Yes

B) Were Vector Control Requirements Satisfied? Yes

**Submit form electronically** and keep a version of the form for your records.**Submit a copy of your lab reports**, to your facility's DNR sludge representative or basin engineer unless instructed otherwise. Email submittal is preferred.**A)****Parameters to be Sampled****DNR Contact: Laura A Dietrich**

Sample Point Number	Parameter Number	Parameter	Date Sample Taken	Sample Type	Analytical Results	Units	Limit	Municipal Sludge Only		Lab Certification Number
								High Quality Limit	Date Analyzed for Organics	
006	33	Arsenic Dry Wt	05/31/2016	COMP	3.2	mg/kg		41		241325920
006	86	Cadmium Dry Wt	05/31/2016	COMP	0.21	mg/kg		39		241325920
006	145	Copper Dry Wt	05/31/2016	COMP	220	mg/kg		1500		241325920
006	262	Lead Dry Wt	05/31/2016	COMP	39	mg/kg		300		241325920
006	278	Mercury Dry Wt	05/28/2016	COMP	0.3	mg/kg		17		999580010
006	295	Molybdenum Dry Wt	05/31/2016	COMP	9.6	mg/kg	75			241325920
006	313	Nickel Dry Wt	05/31/2016	COMP	31	mg/kg		420		241325920
006	421	Selenium Dry Wt	05/31/2016	COMP	5.0	mg/kg		100		241325920
006	551	Zinc Dry Wt	05/31/2016	COMP	430	mg/kg		2800		241325920
006	461	Solids, Total	05/31/2016	COMP	92.9	Percent				241325920
006	335	Nitrogen, Total Kjeldahl	05/07/2016	COMP	5.6	Percent				241325920
006	388	Phosphorus, Total	05/31/2016	COMP	2.0	Percent				241325920
006	686	Phosphorus, Water Extractable	05/01/2016	COMP	0.015	Percent				241325920
006	395	Potassium, Total Recoverable	05/31/2016	COMP	0.034	Percent				241325920
006	365	PCB Total Dry Wt	05/31/2016	COMP	0.076	mg/kg				405132750

**OUTFALLS**

006 - Milorganite (Jones Island)

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**Municipal Sludge Only****Pathogens**

Sample Point Number	Requirement Met	Class	Process Code	Bacteria	Amount	Unit	Start Date	End Date
			Process Description					
006	Yes	A	Heat Drying	Fecal Coliform	0.22	MPN/g TS	05/02/2016	05/16/2016
			The temperature of sewage sludge particles exceeds 80°C / 176° F and the moisture content of the sludge is less than 10%.					

**Vectors**

Sample Point Number	Requirement Met	Vector Reduction	Amount	Date
006	Yes	Drying With Primary Solids > 90% (% TS)	92.9	05/31/2016

**Description of Facility Sample Point:**

A daily (defined as 5 a.m. to 5 a.m.) mass flow proportional sample is collected by an automatic sampler. Individual samples for the daily composite are collected every four tons of production as measured by the product belt scale. All parameters above are analyzed daily except Hg and TKN. Weekly composite samples are collected by combining daily samples in an amount proportional to overall production for a seven day period defined as Sunday through Saturday. One weekly composite sample is analyzed for TKN and four or five composites are analyzed for Hg each month.

**Comments:**

The following QA flags are reported on the noted dates for the following parameters. An explanation of the flags will accompany the lab reports submitted to the basin engineer.

As: J: 13,19.

Cd: J: 1-13,16,19.

P: Q3: 4. B9: 25,26. Q2: 26.

K: B9: 4,7-9,17,18,25,27. Q3: 4. AO: 11,18. B8: 6.

Se: B7: 1-11,14-19,21-26,28-31. J: 1,5,12,20,21,23. B8: 20.

Pathogen Control:

In 2015 and prior, the geometric mean was reported. However, the highest sample value is now reported in the table above though all values were below the LOD.

Actual fecal coliform values: <0.22, <0.21, <0.21 MPN/gTS. Geometric mean: 0.213 MPN/gTS.